



STATE OF ALABAMA  
DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING

INVITATION TO BID

INVITATION TO BID NO: 09-R-2208108

REQ. AGENCY : 012061  
ALA DEPT OF TRANS - EQUIP BUREAU  
AGENCY REQ. NO. : G09-900774  
T-NUMBER :  
DATE ISSUED : 07/06/09  
VENDOR NO. :  
VENDOR PHONE NO. :  
SNAP REQ. NO. : 1419468  
BUYER NAME : SUSAN JANA

FOR: ASPHALT PATCHING TRUCK - 5TH

BUYER PHONE NO. : (334) 242-7173-  
PURCHASING PHONE NO: (334) 242-7250

BID MUST BE RECEIVED BEFORE:  
DATE: 07/27/09 TIME: 5:00 PM

BIDS WILL BE PUBLICLY OPENED:  
DATE: 07/28/09 TIME: 10:00 AM

TO BE COMPLETED BY VENDOR

INFORMATION IN THIS SECTION SHOULD BE PROVIDED, AS APPROPRIATE. BID RESPONSE  
MUST BE IN INK OR TYPED WITH ORIGINAL SIGNATURE AND NOTARIZATION.

1. DELIVERY: CAN BE MADE \_\_\_\_\_ DAYS OR \_\_\_\_\_ WEEKS AFTER RECEIPT OF ORDER
2. TERMS: \_\_\_\_\_(DISCOUNTS ARE TAKEN WITHOUT REGARD TO DATE OF PAYMENT.)
3. PRICE VALID FOR ACCEPTANCE WITHIN \_\_\_\_\_ DAYS.
4. VENDOR QUOTATION REFERENCE NUMBER, IF ANY: \_\_\_\_\_  
(THIS NUMBER WILL APPEAR ON THE PURCHASE ORDER.)
5. E-MAIL ADDRESS: \_\_\_\_\_  
INTERNET WEBSITE: \_\_\_\_\_
6. GENERAL CONTRACTOR'S LICENSE NO: \_\_\_\_\_  
TYPE OF G.C. LICENSE: \_\_\_\_\_  
RETURN INVITATION TO BID:

US MAIL

STATE OF ALABAMA  
DEPARTMENT OF FINANCE  
DIVISION OF PURCHASING  
P O BOX 302620  
MONTGOMERY, AL 36130-2620

COURIER

STATE OF ALABAMA  
DIVISION OF PURCHASING  
RSA UNION BUILDING  
100 N. UNION ST., SUITE 192  
MONTGOMERY, AL 36104

\*\*\*\*\* IMPORTANT NOTE: \*\*\*\*\*

BIDDERS MUST COMPLY WITH ALL "BID RESPONSE INSTRUCTIONS" ON PAGE 2, TO INCLUDE  
ITEM 7 - COPY REQUIREMENT.

SIGNATURE AND NOTARIZATION REQUIRED

I HAVE READ THE ENTIRE BID AND AGREE TO FURNISH EACH ITEM OFFERED AT THE PRICE QUOTED.  
I HERBY AFFIRM I HAVE NOT BEEN IN ANY AGREEMENT OR COLLUSION AMONG BIDDERS IN  
RESTRAINT OF FREEDOM OF COMPETITION BY AGREEMENT TO BID AT A FIXED PRICE OR TO  
REFRAIN FROM BIDDING.

SWORN TO AND

FEIN OR SSN

AUTHORIZED SIGNATURE (INK)

SUBSCRIBED BEFORE ME THIS

COMPANY NAME

TYPE/PRINT AUTHORIZED NAME

\_\_\_\_\_ DAY OF \_\_\_\_\_

MAIL ADDRESS

TITLE

NOTARY PUBLIC

CITY, STATE, ZIP

TOLL FREE NUMBER

TERM EXP: \_\_\_\_\_

PHONE INCLUDING AREA CODE

FAX NUMBER

STANDARD TERMS & CONDITIONS

VENDOR NAME :

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AUTHORITY:

THE DEPARTMENT OF FINANCE CODE OF ADMINISTRATIVE PROCEDURE, CHAPTER 355-4-1 EFFECTIVE DECEMBER 20, 2001 IS INCORPORATED BY REFERENCE AND MADE A PART OF THIS DOCUMENT. TO RECEIVE A COPY CALL (334)242-7250, OR OUR WEBSITE WWW.PURCHASING.ALABAMA.GOV .

INFORMATION AND ASSISTANCE TO MINORITY BUSINESSES IN THE TECHNICAL COMPLETION OF REQUIRED FORMS MAY BE OBTAINED FROM THE OFFICE OF MINORITY BUSINESS ENTERPRISE, 1-800-447-4191.

BID (ITB) RESPONSE INSTRUCTIONS

REV: 04/07/09

1. TO SUBMIT A RESPONSIVE BID, READ THESE INSTRUCTIONS, ALL TERMS, CONDITIONS AND SPECIFICATIONS.
2. BID ENVELOPES/PACKAGES/BOXES MUST BE IDENTIFIED ON FRONT, PREFERABLY LOWER LEFT CORNER AND BE VISIBLE WITH THE BID NUMBER AND OPENING DATE. EACH INDIVIDUAL BID (IDENTIFIED BY A UNIQUE BID NUMBER) MUST BE SUBMITTED IN A SEPERATE ENVELOPE. RESPONSES TO MULTIPLE BID NUMBERS SUBMITTED IN THE SAME ENVELOPE/COURIER PACKAGE, THAT ARE NOT IN SEPERATE ENVELOPES PROPERLY IDENTIFIED, WILL BE REJECTED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR LATE BIDS FOR ANY REASON INCLUDING THOSE DUE TO POSTAL, OR COURIER SERVICE. BID RESPONSES MUST BE IN THE DIVISION OF PURCHASING OFFICE PRIOR TO THE "RECEIVE DATE AND TIME" INDICATED ON THE BID.
3. BID RESPONSES (PAGE 1, PRICE SHEET AND ADDENDUMS (WHEN SIGNATURE IS REQUIRED)) MUST BE IN INK OR TYPED ON THIS DOCUMENT. OR EXACT FORMAT WITH SIGNATURES BEING HANDWRITTEN ORIGINALS IN INK (PERSON SIGNING BID, NOTARY, AND NOTARY EXPIRATION), OR THE BID WILL BE REJECTED. UNLESS INDICATED IN THE BID, ALL PRICE PAGES MUST BE COMPLETED AND RETURNED. IF AN ITEM IS NOT BEING BID, IDENTIFY IT AS NB (NO-BID). PAGES SHOULD BE SECURED. THE DIVISION OF PURCHASING DOES NOT ASSUME RESPONSIBILITY FOR MISSING PAGES. FAXED BID RESPONSES WILL NOT BE ACCEPTED.
4. THE UNIT PRICE ALWAYS GOVERNS REGARDLESS OF THE EXTENDED AMOUNT. A UNIT PRICE CHANGE ON A LINE MUST BE INITIALED BY THE PERSON SIGNING THE BID, OR THAT LINE WILL BE REJECTED. THIS INCLUDES A CROSS-OUT, STRIKE-OVER, INK-OVER, WHITE-OUT, ERASURE, OR ANY OTHER METHOD CHANGING THE PRICE.
5. A "NO BID" MUST BE RETURNED TO REMAIN ON A CLASS/SUBCLASS. RETURN PAGE 1 MARKED "NO-BID". IDENTIFY IT ON THE ENVELOPE AS A "NO-BID". FAILING TO RESPOND TO 3 ITB'S WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. RESPONDING WITH 6 "NO-BIDS" WITHIN THE SAME CLASS/SUBCLASS WILL AUTOMATICALLY PURGE THE VENDOR FROM THAT CLASS/SUBCLASS. A "NO-BID" RECEIVED LATE IS CONSIDERED A NO RESPONSE.
6. THE DIVISION OF PURCHASING IS NOT RESPONSIBLE FOR MISINTERPRETATION OF DATA FAXED FROM THIS OFFICE.
7. THE DIVISION OF PURCHASING REQUIRES AN ORIGINAL AND A MINIMUM OF ONE COMPLETE EXACT COPY (TO INCLUDE SIGNATURE AND NOTARY) OF THE INVITATION-TO-BID RESPONSE. THE ORIGINAL AND THE COPY SHOULD BE SUBMITTED TOGETHER AS A BID PACKAGE.
8. AN IMPROPERLY SUBMITTED BID, LATE BID, OR BID THAT IS CANCELLED ON OR BEFORE THE OPENING DATE WILL BE HELD FOR 90 DAYS AND THEN DESTROYED. THE BID MUST BE RETRIEVED DURUIG REGULAR WORK HOURS, MONDAY - FRIDAY, EXCEPT STATE HOLIDAYS. AFTER THE BID IS DESTROYED, THE DIVISION OF PURCHASING ASSUMES NO RESPONSIBILITY FOR THE DOCUMENT.

DISQUALIFIED/CANCELLED BID

BIDS THAT ARE IMPROPERLY SUBMITTED OR RECEIVED LATE WILL BE A RESPONSE FOR RECORD, BUT WILL NOT BE RETURNED OR A NOTIFICATION MAILED.

THE FOLLOWING IS A PARTIAL LIST WHEREBY A BID RESPONSE WILL BE DISQUALIFIED:

BID NUMBER NOT ON FACE OF ENVELOPE/COURIER PACKAGE/BOX  
RESPONSES TO MULTIPLE BID NUMBERS IN SAME ENVELOPE NOT PROPERLY IDENTIFIED  
BID RECEIVED LATE  
BID NOT SIGNED/NOT ORIGINAL SIGNATURE  
BID NOT NOTARIZED/NOT ORIGINAL SIGNATURE OF NOTARY AND/OR NO NOTARY EXPIRATION  
NOTARIZED OWN SIGNATURE  
REQUIRED INFORMATION NOT SUBMITTED WITH BID  
FAILURE TO SUBMIT THE ORIGINAL BID AND A COMPLETE EXACT COPY WILL RESULT IN REJECTION OF THE BID RESPONSE  
FAILURE TO MARK RESPONSES AS "ORIGINAL" AND/OR "COPY" COULD RESULT IN THE ENTIRE BID RESPONSE BEING REJECTED

CERTIFICATION PURSUANT TO ACT NO. 2006-557

ALABAMA LAW (SECTION 41-4-116, CODE OF ALABAMA 1975) PROVIDES THAT EVERY BID SUBMITTED AND CONTRACT EXECUTED SHALL CONTAIN A CERTIFICATION THAT THE VENDOR, CONTRACTOR, AND ALL OF ITS AFFILIATES THAT MAKE SALES FOR DELIVERY INTO ALABAMA OR LEASES FOR USE IN ALABAMA ARE REGISTERED, COLLECTING, AND REMITTING ALABAMA STATE AND LOCAL SALES, USE, AND/OR LEASE TAX ON ALL TAXABLE SALES AND LEASES INTO ALABAMA. BY SUBMITTING THIS BID, THE BIDDER IS HEARBY CERTIFYING THAT THEY ARE IN FULL COMPLIANCE WITH ACT NO. 2006-557, THEY ARE NOT BARRED FROM BIDDING OR ENTERING INTO A CONTRACT PURSUANT TO 41-4-116, AND ACKNOWLEDGES THAT THE AWARDING AUTHORITY MAY DECLARE THE CONTRACT VOID IF THE CERTIFICATION IS FALSE.

SPECIAL TERMS & CONDITIONS

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INVITATION TO BID

#### INTENT TO AWARD

EFFECTIVE MAY 1, 2008, THE STATE OF ALABAMA - DIVISION OF PURCHASING WILL ISSUE AN 'INTENT TO AWARD' BEFORE A FINAL AWARD IS MADE. THE 'INTENT TO AWARD' WILL CONTINUE FOR A PERIOD OF FIVE (5) CALENDAR DAYS, AFTER WHICH A PURCHASE ORDER WILL BE PRODUCED. UPON FINAL AWARD, ALL RIGHTS TO PROTEST ARE FORFEITED. A DETAILED EXPLANATION OF THIS PROCESS MAY BE REVIEWED IN THE ALABAMA ADMINISTRATIVE CODE - CHAPTER 355-4-1(14).

#### ALTERNATE BID RESPONSE

UNLESS STATED ELSEWHERE IN THIS INVITATION-TO-BID (ITB) THE STATE OF ALABAMA WILL ACCEPT AND EVALUATE ALTERNATE BID SUBMITTALS ON ANY ITB'S. ALTERNATE BID RESPONSES WILL BE EVALUATED ACCORDING TO THE REQUIREMENTS AS ALL OTHER RESPONSES TO THIS ITB.

#### INTERNET WEBSITE LINK'S

INTERNET AND/OR WEBSITE LINKS WILL NOT BE ACCEPTED IN BID RESPONSES AS A MEANS TO SUPPLY ANY REQUIREMENTS STATED IN THIS ITB (INVITATION-TO-BID).

#### PRODUCT DELIVERY, RECEIVING AND ACCEPTANCE

IN ACCORDANCE WITH THE UNIVERSAL COMMERCE CODE (CODE OF ALABAMA, TITLE 7), AFTER DELIVERY, THE STATE OF ALABAMA HAS THE RIGHT TO INSPECT ALL PRODUCTS BEFORE ACCEPTING. THE STATE WILL INSPECT PRODUCTS IN A REASONABLE TIMEFRAME. SIGNATURE ON A DELIVERY DOCUMENT DOES NOT CONSTITUTE ACCEPTANCE BY THE STATE. THE STATE WILL ACCEPT PRODUCTS ONLY AFTER SATISFACTORY INSPECTION.

#### SALES TAX EXEMPTION

PURSUANT TO THE CODE OF ALABAMA, 1975, TITLE 40-23-4 (A) (11), THE STATE OF ALABAMA IS EXEMPT FROM PAYING SALES TAX. AN EXEMPTION LETTER WILL BE FURNISHED UPON REQUEST.

#### INVOICES

INQUIRIES CONCERNING PAYMENT AFTER INVOICES HAVE BEEN SUBMITTED ARE TO BE DIRECTED TO THE RECEIVING AGENCY, NOT THE DIVISION OF PURCHASING

#### BID RESPONSES AND BID RESULTS

UNEVALUATED BID RESPONSES (NOT BID RESULTS) ARE AVAILABLE ON OUR WEB SITE AT WWW.PURCHASING.ALABAMA.GOV. BID RESULTS WILL BE MADE AVAILABLE FOR REVIEW IN THE DIVISION OF PURCHASING OFFICE, BUT ONLY AFTER THE BID HAS BEEN AWARDED. WE DO NOT FAX OR MAIL COPIES OF BID RESULTS. IF A VENDOR WISHES TO REVIEW BID RESULTS IN OUR OFFICE, THEY SHOULD FAX THEIR REQUEST TO REVIEW THE BID TWO DAYS IN ADVANCE TO THE "BID REVIEW CLERK" AT (334) 242-4419. BE SURE TO REFERENCE THE BID NUMBER.

#### FOREIGN CORPORATION - CERTIFICATE OF AUTHORITY

ALABAMA LAW PROVIDES THAT A FOREIGN CORPORATION (AN OUT-OF-STATE COMPANY/FIRM) MAY NOT TRANSACT BUSINESS IN THE STATE OF ALABAMA UNTIL IT OBTAINS A CERTIFICATE OF AUTHORITY FROM THE SECRETARY OF STATE. SECTION 10-2B-15.01, CODE OF ALABAMA 1975. TO OBTAIN FORMS FOR A CERTIFICATE OF AUTHORITY, CONTACT THE SECRETARY OF STATE, CORPORATIONS DIVISION, (334) 242-5324. THE CERTIFICATE OF AUTHORITY DOES NOT KEEP THE VENDOR FROM SUBMITTING A BID.

#### BID IDENTIFICATION

REFERENCE PAGE 2, ITEM 2. DUE TO THE POSTAL SERVICE PUTTING BAR CODE LABELS ON ENVELOPES, IT CONCEALS THE BID NUMBER AND DATE IF THE VENDOR HAS WRITTEN THEM OTHER THAN THE LOWER LEFT CORNER, THEREFORE THE BID WOULD BE REJECTED FOR NOT BEING PROPERLY IDENTIFIED.

SPECIAL TERMS & CONDITIONS

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AWARD:

AWARD WILL BE MADE TO THE LOWEST RESPONSIBLE BIDDER MEETING ALL SPECIFICATIONS.

\* NOTE: DELIVERY DATE MAY BE A FACTOR IN AWARD

FREIGHT:

BID IS F.O.B. DESTINATION. ANY FREIGHT CHARGES MUST BE INCLUDED IN THE UNIT PRICE AND NOT SHOWN SEPARATELY ON THE ITB OR INVOICE.

PRORATION:

ANY PROVISION OF A CONTRACT RESULTING FROM THIS BID TO THE CONTRARY NOTWITHSTANDING, IN THE EVENT OF FAILURE OF THE STATE TO MAKE PAYMENT HEREUNDER AS A RESULT OF PARTIAL UNAVAILABILITY, AT THE TIME SUCH PAYMENT IS DUE, OF SUCH SUFFICIENT REVENUES OF THE STATE TO MAKE SUCH PAYMENT (PRORATION OF APPROPRIATED FUNDS FOR THE STATE HAVING BEEN DECLARED BY THE GOVERNOR PURSUANT TO SECTION 41-4-90 OF THE CODE OF ALABAMA 1975), THE CONTRACTOR SHALL HAVE THE OPTION, IN ADDITION TO THE OTHER REMEDIES OF THE CONTRACT, OF RENEGOTIATING THE CONTRACT (EXTENDING OR CHANGING PAYMENT TERMS OR AMOUNTS) OR TERMINATING THE CONTRACT.

MANUFACTURER/MODEL NUMBER:

AT THE END OF EACH ITEM WHERE SPACES ARE MARKED "MFR" AND "MODEL", VENDORS MUST INDICATE THE MANUFACTURER & ALL STOCK/MODEL NUMBERS NECESSARY TO COMPLETE EACH UNIT AS SPECIFIED.

FAILURE TO COMPLETE THIS INFORMATION WILL RESULT IN BID REJECTION.

DESCRIPTIVE LITERATURE:

IF REQUESTED, VENDORS MAY BE REQUIRED TO SUBMIT DESCRIPTIVE LITERATURE WHICH SHOWS THAT THE ITEM BID MEETS ALL SPECIFICATIONS. LITERATURE, IF REQUESTED, MUST BE RECEIVED WITHIN 5 BUSINESS DAYS FROM THE DATE OF REQUEST. REFERENCE TO A WEBSITE OR TO LITERATURE WITH A PREVIOUS BID WILL NOT SATISFY THIS REQUIREMENT. FAILURE TO PROVIDE LITERATURE, TO PROVIDE THE LITERATURE IN A TIMELY MANNER, OR TO PROVIDE SUFFICIENT LITERATURE SHOWING THAT THE ITEM MEETS ALL SPECIFICATIONS WILL RESULT IN BID REJECTION. PHYSICAL INSPECTION AND/OR OPERATIONAL EVALUATION MAY BE REQUIRED WITHOUT COST OR OBLIGATION TO THE STATE OF ALABAMA.

REQUESTED INFORMATION:

ANY ADDITIONAL INFORMATION REQUESTED FROM A VENDOR MUST BE FURNISHED WITHIN FIVE (5) BUSINESS DAYS FROM RECEIPT OF REQUEST.

ATTACHMENTS

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INVITATION TO BID

\*\*\*\*\* IMPORTANT INFORMATION \*\*\*\*\*

IT IS THE VENDOR'S RESPONSIBILITY TO READ THIS ENTIRE DOCUMENT FROM BEGINNING TO END AND TO COMPLY WITH ALL INSTRUCTIONS AND TERMS AND CONDITIONS OF THE BID.

REMINDER: BIDDERS MUST SUBMIT AN ORIGINAL AND A MINIMUM OF ONE EXACT, COMPLETE COPY (INCLUDING SIGNATURE AND NOTARY) OF THE BID, AS SHOWN ON PAGE 2 OF THE ITB, OR THE BID WILL BE REJECTED.

FOR SPECIFICATION QUESTIONS, CONTACT THE AGENCY:  
STAN CARLTON @ (334) 242-6057

FOR PROCEDURAL QUESTIONS, CONTACT THE BUYER:  
SUSAN JANA @ (334) 242-7173 OR SUSAN.JANA@PURCHASING.ALABAMA.GOV

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PRICE SHEET

VENDOR NAME :

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INVITATION TO BID

LINE NO.	COMMODITY/SERVICE DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
UNLESS SPECIFIED OTHERWISE BELOW: SHIP TO: 012028 / 012M01 ALA DEPT OF TRANS 5TH DIVISION FIFTH DIVISION P.O. BOX 70070 2715 SKYLAND BLVD TUSCALOOSA AL 35405					

00001	COMMODITY CODE: 070-48-087359 ASPHALT PATCHING TRUCK, NEW LATEST MODEL	1	EA		
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NOTE: BILL TO SAME AS SHIP TO ADDRESS.

SHIP TO:

1 EACH TO 5TH DIVISION

CONTACT: LARRY CUNNINGHAM  
205-554-3232  
ALABAMA DEPT OF TRANSPORTATION  
2715 SKYLAND BLVD  
PO BOX 70070  
TUSCALOOSA, AL 35407  
(5-9-4-1)

MFR: \_\_\_\_\_ MODEL#: \_\_\_\_\_

\* SEE ATTACHED SPECIFICATIONS

PAGE TOTAL

BID TOTAL

**B/C 365-5****G09- 900774**

- 1 Ea. New latest model Truck Chassis with Asphalt Patching Machine meeting the following specifications, in accordance with manufacturer's standard published specifications:

CA: 144"

AF: 43"

AXLE, FRONT: 12,000 lbs. capacity with power steering.

AXLE, REAR: 23,000 lbs. capacity, single speed geared to run at 70 mph electronically governed at 65 mph.

BRAKES: Air with dryer and automatic moisture ejector.

FUEL TANK: 50 gallon step aluminum.

ALTERNATOR: 120 amps.

ENGINE: Diesel 255 HP 660 Ft. Lbs. torque in line 6 cylinder.

TRANSMISSION: 3500 RDS (5 speed).

COOLING SYSTEM: Radiator, extra cooling.

FRAME: RBM's 900,000.

SPRINGS, FRONT: 12,000 lbs.

SPRINGS, BACK: 23,000 w/auxiliary springs 2,000 lbs. each.

TIRES: Six (6) 11R22.5H, front and dual rear.

MIRRORS, REARVIEW: 7" X 16" western type, with 5" convex spot.

FACTORY AIR CONDITIONING.

AM/FM RADIO.

SEATS: Air suspension driver's seat with headrest and two man passenger seat fixed back with two integral headrest vinyl.

BODY BUILDER WIRING

REMOTE POWER MODULE with 6 inputs & 6 outputs

PTO accommodation for electric over hydraulic PTO

If 2010 model and 2010 emissions apply then it must be 2010 emissions standard compliant without additional hardware or diesel exhaust fluid.

All lights required to meet ICC and Federal Motor Carrier Safety Regulations.

Unit to be equipped with a Safety Back-Up Alarm meeting the following specifications:

To be an ECCO Model SA-905; 4" mounting centers; rectangular housing; 82 to 107 aB(A); Type B or factory equal.

Unit shall be capable of making permanent asphalt repairs under any weather conditions.

DIMENSIONS: 108"-112" Long; 78" wide; "49-50" high. Shall have safety step side fenders with integral lighting. There shall be a lockable tool storage compartment incorporated with the side fenders.

Surface of side fender shall be diamond-tread design with two ladders and body assist handles.

BODY CAPACITY: Asphalt aggregate hopper shall be at least 4cubic yards minimum, level full.



**BODY INSULATION:** The top metal door, aggregate hopper and emulsion/cut-back/tack oil tank to be insulated with 2" insulation encased in a double steel jacket that covers top, sides, ends and bottom of the patch unit and oil tanks.

**HEATING SYSTEMS:** The body shall have a dry radiant heat chamber heated by 2 each 150,000 BTU retort tube propane burners with vertical exhaust stacks. The exhaust stack dampners are electronically actuated to close when burners are off to reduce heat loss. The burners are thermostat controlled and regulated at 10 PSI. The ignition system is 12 volt DC with electronic igniter. Gas burner has a safety shut-off on loss of flame or excessive temperature. Automatic safety shut-off when diesel pump is operating. Burner has two stages, ignites on 10 oz. pressure, operates at 10 PSI, on high burn regulated by the same thermostat as the electric heater. Thermostats will be 0/300 degrees F solid state..

**ELECTRONIC CONTROLS:** All electronic controls will be solid state shock resistant. Thermostat for tack oil tank is 0/250 degrees F. Thermostat for asphalt aggregate hopper is 0/300 degrees F. Thermostat for the asphalt hopper has build in high limit safety shut down switch. Same thermostat controls the 12 volt LP Gas fired system and the 220 volt electric heating system.

**EMULSION OIL TANK CAPACITY & HEATING SYSTEM:** The tank capacity is 100 gallons and has a double steel jacket with 2" insulation. The tank is equipped with a heat transfer system that is capable of heating the emulsion oil to 150 degrees F., using the truck engine coolant system as the heat source. The emulsion pump and all lines are in an insulated heated area. The tank has 220 volt thermostat controlled dry well electric heater and hot well for storing the spray wand in cold weather. Tank has an 8" fill spout and a 2" gate valve on tank drain.

**FUEL:** Shall be propane 50 gallon capacity frame mounted bottle with quick fill connector, 10 psi regulator and fuel sight gauge.

**HAND TORCH:** Shall be propane, with minimum of 200,000 B.T.U. with shut-off valve and 10 ft. of hose. Torch shall be located at rear of truck. All necessary mounting brackets shall be furnished to allow torch to remain at rear of truck while in transit.'

**TEMPERATURE GAUGE:** Shall be 3" dial type stainless steel that will constantly monitor the temperature of the liquid asphalt and heat transfer oil.

**ASPHALT/EMULSION OIL PUMP:** Shall be 1 1/2" self-priming, reversible, variable speed, and rotary gear pump with integral relief valve. Operating conditions shall be 20. G.P.M. at 1200 R.P.M. Operating pressure shall be 100 P.S.I.

**HYDRAULIC PUMP:** Shall be 12 G.P.M. min., 2,000 P.S.I. operating pressure, variable speed, gear type at 900 RPM.

**HYDRAULIC CONTROL VALVE:** Shall be five (5) spool directional, two-way variable flow with 2,000 P.S.I. relief valve; shall be operated from right rear corner of body by remote levers. The valve has an internal or external safety design that will protect the operator and not allow the screw conveyor or asphalt agitator to operate when the doors are open. This system is designed to divert hydraulic oil pressure back to the tank. Electric solenoids on hydraulic valve are not acceptable due to mechanical override feature and ease of bypassing system. The valve is operated from the rear of



machine by remote levers. To reduce maintenance problems the main directional control valve stack has no electric solenoids.

**HYDRAULIC OIL RESERVOIR:** Shall be minimum 30 gallon capacity with breather and sight gauge or dip stick. There shall be a large capacity, easy-access replaceable cartridge filter. Hydraulic oil cooler (8 tube thermal dynamic) 12 volt thermostat controlled.

**HYDRAULIC HOSE REEL:** Shall be minimum 3,000 P.S.I. w/dual 25' hydraulic tool lines. Reel is to be spring loaded, auto retractable.

**ASPHALT HAND SPRAYER:** Shall be 5' long x 3/8" diameter equipped with fan nozzle and 15' of 5/8" hose. Sprayer shall be controlled by a deadman control valve, which is reversible for cleaning and shall be able to spray while unit is moving.

**SCREW CONVEYOR:** Shall be 120" long x 6" diameter x 2" flights minimum; roller and ball bearing mounted. Shall be driven by forward and reversing hydraulic motor. Delivery chute with 120 degree of pivot.

**ASPHALT ANTI-BRIDGING AGITATOR:** Located in the asphalt hopper above the screw conveyor. Hydraulically operated forward and reversing, for breaking up asphalt bridging over the screw conveyor, if this occurs.

**PTO:** A Muncie or Chelsea Electric over air shift.

**THROTTLE:** An Electronic engine throttle control remote, rear mounted.

**DIESEL FUEL STORAGE:** Shall be minimum 18 gallons capacity with 12 VDC electric pump. There shall be a connector for flushing the oil pump and a 1" drain.

**HYDRAULIC HAMMER:** Stanley BR72, 59 lb. min. hammer and set of tools consisting of asphalt cutter, tamper shoe and detachable shank.

**SPOILS BIN** Located Behind Cab & In Front of Body: To be 30" wide with min. 1.25 C.Y. capacity and hydraulic dump.

**EXTRA TOOL BOX** Behind Cab & In Front of Body: 19" X 24" X 30". Door hinged (full-width) at bottom with weather proof seal. At least 12 gauge two sided, 40 steel.

**HYDRAULIC OPERATED STEEL DOORS:** Two hydraulically operated bi-fold steel doors. Doors are insulated with 2" of high temperature insulation in a double steel jacket. The doors have rain seal caps and flex plates to keep asphalt out of door hinges. Each door shall have a hydraulic cylinder with bypass and flow control valves.

**10 LB FIRE EXTINGUISHER:** Mounted outside of truck cab.

**STROBE LIGHT (TWO EACH):** Pedestal mounted near front of hopper equal to Brand Able-2, Model 22-0236 Amber on left, clear right.

**DIRECTIONAL ARROW BOARD:** To be mounted on the rear of patch unit with controls in the cab, Model 30X60-25LP, Brand Flexolite Signal or equal.

**HYDRAULIC LIFT PLATFORM:** To lower and lift vibratory compactor or vibrator roller, with locking brackets for State provided compactor, Ingersoll-Rand, 5 HP, 180 lb., plate 23"x19".

**WORK DECK:** The work deck is to be constructed of 1/4" angle iron and 3/16" expanded metal with assist hand rails and shall be mounted between hopper and truck cab. Deck to provide easy and safe access to emulsion oil tank and asphalt hopper.

**VIBRATORY COMPACTOR PLATE:** WACKER WP 1550AW Compactor equipped with a 5.5 hp gasoline Honda Engine with auto oil alarm shut down. Operating weight is 190#, centrifugal force 3375#, plate size 19.5 X 23", a water tank and locking holding down brackets.

**DIESEL FUEL HOSE REEL:** Hose reel for diesel fuel spray wand has 20' of hose. Reel is to be spring loaded auto-retractable.

**DRIP PAN:** A ten (10) gallon drip pan for waste oil combination mounted on the unit with necessary valve for draining.

**WATER TANK:** A frame mounted eight (8) gallon tank with valve and hose. Water supply for asphalt compactor plate with rust proof liner.

**HIGHWAY WARNING TRIANGLES:** A Highway warning triangle kit consisting of three (3) reflective triangles in a storage case.

**ASPHALT LUTE AND SHOVEL RACKS:** Spring loaded asphalt lute and shovel racks.

**COLOR:** White to match chassis.

**TECHNICAL DATA:** Successful bidder shall supply two (2) parts book, two (2) service and repair manuals, and two (2) operator's manuals, and 24 hours of training at the delivered location.

Patcher unit (unit mounted on chassis) shall be warranted (parts and labor) for twelve (12) months covering defects in materials and workmanship at delivery point.

Above equipment to be checked over and ready for service before delivery.

Completed unit to be delivered to "SHIP TO" location.

Warranty Card and Service Policy must accompany each vehicle when delivered.

Delivery date may be a factor in making award.